

ABSTRAK

“RANCANG BANGUN SISTEM MONITORING KEAMANAN PADA MASJID ATH-THUROIQI ”

(Rachmattullooh 2025:76)

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Perkembangan teknologi informasi dan komunikasi memberikan peluang besar untuk penerapan sistem digital dalam mendukung aktivitas keagamaan. Salah satunya adalah penyampaian jadwal sholat dan pengawasan keamanan di lingkungan masjid. Penelitian ini merancang sistem berbasis *Raspberry Pi* yang berfungsi menampilkan informasi jadwal salat serta tayangan CCTV melalui tampilan web lokal. Data jadwal salat dikonfigurasi dalam format JSON dan ditampilkan melalui *browser Chromium* di TV atau layar monitor. Sedangkan tayangan CCTV diperoleh dari kamera IP melalui protokol RTSP. Hasil pengujian menunjukkan bahwa sistem bekerja dengan baik, meskipun terdapat keterbatasan performa *Raspberry Pi* saat memproses video dalam waktu lama. Sistem ini memberikan solusi terintegrasi dalam mendukung kenyamanan dan keamanan jamaah masjid.

Kata Kunci: *Raspberry Pi, Jadwal Salat, CCTV, Monitoring, JSON, Masjid.*

ABSTRACT

“DESIGN AND CONSTRUCTION OF A SECURITY MONITORING SYSTEM AT THE ATH-THUROIQI MOSQUE”

(Rachmattullooh 2025:76)

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DIPLOMA III IN COMPUTER ENGINEERING PROGRAM
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The development of information and communication technology provides significant opportunities for the implementation of digital systems to support religious activities. One example is the delivery of prayer schedules and security monitoring in mosque environments. This study designed a Raspberry Pi-based system that functions to display prayer schedule information and CCTV footage through a local web interface. Prayer schedule data is configured in JSON format and displayed through a Chromium browser on a TV or monitor screen. Meanwhile, CCTV footage is obtained from IP cameras via the RTSP protocol. Test results showed that the system worked well, despite the Raspberry Pi's performance limitations when processing video for long periods. This system provides an integrated solution to support the comfort and security of mosque congregations.

Keywords: *Raspberry Pi, Prayer Schedule, CCTV, Monitoring, JSON, Mosque.*